

Marina Kounkel

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Professional Experiences

- **Western Washington University** Bellingham, WA
Postdoctoral scholar 2017 - present
- **University of Michigan** Ann Arbor, MI
PhD in Astronomy and Astrophysics, Rackham Fellowship 2012 - 2017
- **University of Toledo** Toledo, OH
B.S. in Astrophysics, Summa Cum Laude 2008 - 2012

Research highlights

Research interests:

Various aspects pertaining to star formation, including

- Inter- and intracluster dynamics
- 3D structure of star forming regions
- Environmental dependence on the multiplicity function
- Binary orbit fitting
- Dynamics and structure of protostellar envelopes

Experience in working with multi-wavelength photometric and spectroscopic data products from:

- *Optical:* Hectochelle, M2FS, IMACS, Gaia
- *IR:* HST, Spitzer, IRTF, FIRE, APOGEE
- *Submm:* SMA, IRAM 30m, NOEMA
- *Radio:* VLA, VLBA

Service

Spitzer TAC 2018
Referee for ApJ, A&A 2017-2018

Teaching and Community Outreach

Naked Eye Astronomy, Primary Instructor 2015 - 2017
Middle school guest lecture Fall 2016
Volunteer at the Detroit Observatory open houses 2013 - 2017
Volunteer at FEMMES (Females Excelling More in Math and Science) Event Spring 2016
UM Curriculum Committee Graduate Student Representative Spring 2015
Introductory Astronomy Teaching Assistant 2013 - 2015
Graduate Employees Organization, Secretary 2014 - 2015
Graduate Employees Organization, Representative from the Astronomy Department 2013 - 2014
Ritter Observatory, Operator 2009 - 2012
Ritter Planetarium, Staff 2008 - 2012

References

Lee Hartmann

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Laurent Loinard

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Tom Megeath

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University of Toledo
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Publications

First Author

- *The APOGEE-2 Survey of the Orion Star Forming Complex II: Six-dimensional structure*, [Kounkel, M.; Covey, K.; Suarez, G.; Román-Zúñiga, C.; Hernandez, J.; Stassun, K.; Jaehnig, K.; Feigelson, E.; Peña Ramírez, K.; Roman-Lopes, A.; Stringfellow, G.; Da Rio, N.; Kim, S.; Borissova, J.; Fernández-Trincado, J.; Burgasser, A.; García-Hernández, D. A.; Zamora, O.; Pan, K.; Nitschelm, C.], 2018, 156, 84 ([link](#))
- *VLBA Observations of Strong Anisotropic Radio Scattering Toward the Orion Nebula*, [Kounkel, M.; Hartmann, L.; Loinard, L.; Mioduszewski, A.; Rodríguez, L. F.; Ortiz-León, G. N.; Johnson, M.; Torres, R.; Briceño, C.], 2018, AJ, 155, 218 ([link](#))
- *Kinematics of the Optically Visible YSOs toward the Orion B Molecular Cloud*, [Kounkel, M.; Hartmann, L.; Mateo, M.; Bailey, J. I., III], 2017, ApJ, 844, 138 ([link](#))
- *Characterizing the Stellar Population of NGC 1980*, [Kounkel, M.; Hartmann, L.; Calvet, N.; Megeath, T.], 2017, AJ, 154, 29 ([link](#))
- *The Goulds Belt Distances Survey (GOBELINS) II. Distances and structure towards the Orion Molecular Clouds*, [Kounkel, M.; Hartmann, L.; Loinard, L.; Ortiz-León, G. N.; Mioduszewski, A. J.; Rodríguez, L. F.; Dzib, S. A.; Torres, R. M.; Pech, G.; Galli, P. A.; Rivera, J. L.; Boden, A. F.; E., Neal J.; Briceño, C.; Tobin, J. J.], 2017, ApJ, 834, 142 ([link](#))
- *An HST Survey for 100–1000 au Companions around Young Stellar Objects in the Orion Molecular Clouds: Evidence for Environmentally Dependent Multiplicity*, [Kounkel, M.; Megeath, S. T.; Poteet, C. A.; Fischer, W. J.; Hartmann, L.], 2016, ApJ, 821, 52 ([link](#))
- *Spectroscopic Binaries in the Orion Nebula Cluster and NGC 2264*, [Kounkel, M.; Hartmann, L.; Tobin, J. J.; Mateo, M.; Bailey, J. I., III; Spencer, M.], 2016, 821, 8 ([link](#))
- *The Gould's Belt Very Large Array Survey. III. The Orion Region*, [Kounkel, M.; Hartmann, L.; Loinard, L.; Mioduszewski, A. J.; Dzib, S. A.; Ortiz-León, G. N.; Rodríguez, L. F.; Pech, G.; Rivera, J. L.; Torres, R. M.; Boden, A. F.; E., Neal J.; Briceño, C.; Tobin, J.], 2014, 790, 49 ([link](#))

Co-Author

- *The Goulds Belt Distances Survey (GOBELINS). V. Distances and Kinematics of the Perseus Molecular Cloud*, [Ortiz-León, G. N.; Loinard, L.; Dzib, S. A.; Galli, P. A.; Kounkel, M.; Mioduszewski, A. J.; Rodríguez, L. F.; Torres, R. M.; Hartmann, L.; Boden, A. F.; Evans, N. J.; Briceño, C.; Tobin, J.], 2018, ApJ, 865, 73 ([link](#))
- *The APOGEE-2 Survey of the Orion Star Forming Complex: I. Target Selection and Validation with early observations*, [Cottle, J. N.; Covey, K.; Suarez, G.; Roman-Zuniga, C.; Schlafly, E.; Downes, J.; Ybarra, J.; Hernandez, J.; Stassun, K.; Stringfellow, G.; Getman, K.; Feigelson, E.; Borissova, J.; Kim, J. S.; Roman-Lopes, A.; Da Rio, N.; De Lee, N.; Frinchaboy, P.; Kounkel, M.; Majewski, S.; Mennickent, R.; Nidever, D.; Nitschelm, C.; Pan, K.; Shetrone, M.; Zasowski, G.; Chambers, K.; Magnier, E.; Valenti, J.], 2018, ApJS, 236, 27 ([link](#))
- *The Goulds Belt Distances Survey (GOBELINS) IV. Distance, Depth and Kinematics of the Taurus Star-Forming Region*, [Galli, P. A.; Loinard, L.; Ortiz-León, G. N.; Kounkel, M.; Dzib, S. A.; Mioduszewski, A. J.; Rodríguez, L. F.; Hartmann, L.; Teixeira, R.; Torres, R. M.; Rivera, J. L.; Boden, A. F.; Evans, N. J.; Briceño, C.; Tobin, J.; Heyer, M.], 2018, ApJ, 859, 33 ([link](#))

- *An HST Survey of Protostellar Outflow Cavities: Does Feedback Clear Envelopes?*, [Booker, J.; Megeath, S. T.; Fischer, W.; **Kounkel, M.**; Poteet, C.; Furlan, E.; Stutz, A.; Puravankara, M.; Tobin, J.; Nagy, Z.; Watson, D.], 2016, ApJ, submitted
- *The Goulds Belt Distances Survey (GOBELINS) III. The Distance to Serpens/Aquila*, [Ortiz-León, G. N.; Dzib, S. A.; **Kounkel, M.**; Loinard, L.; Mioduszewski, A. J.; Rodríguez, L. F.; Torres, R. M.; Pech, G.; Rivera, J. L.; Hartmann, L.; Boden, A. F.; Evans, N. J.; Briceño, C.; Tobin, J.; Galli, P. A.], 2017, ApJ, 834, 143 (link)
- *The Goulds Belt Distances Survey (GOBELINS) I. Trigonometric Parallax Distances and Depth of the Ophiuchus Complex*, [Ortiz-León, G. N.; Loinard, L.; **Kounkel, M.**; Dzib, S. A.; Mioduszewski, A. J.; Rodríguez, L. F.; Torres, R. M.; González-Lópezlira, R. A.; Pech, G.; Rivera, J. L.; Hartmann, L.; Boden, A. F.; Evans, N. J.; Briceño, C.; Tobin, J.; Galli, P. A.; Gudehus, D.], 2017, ApJ, 834, 141 (link)
- *Radio Measurements of the Stellar Proper Motions in the Core of the Orion Nebula Cluster*, [Dzib, S. A.; Loinard, L.; Rodríguez, L. F.; Gómez, L.; Forbrich, J.; Menten, K. **Kounkel, M.**, Mioduszewski, A. J.; Hartmann, L.; Tobin, J. J.; Rivera, J. L.], 2017, ApJ, 834, 139 (link)
- *The Goulds Belt Very Large Array Survey. V. The Perseus Region*, [Pech, G.; Loinard, L.; Dzib, S. A.; Mioduszewski, A. J.; Rodríguez, L. F.; Ortiz-León, G. N.; Rivera, J. L.; Torres, R. M.; Boden, A. F.; Hartman, L.; **Kounkel, M.**; Evans, N. J.; Briceño, C.; Tobin, J.; Zapata, L. A.], 2016, ApJ, 818, 116 (link)
- *The Gould's Belt Very Large Array Survey. II. The Serpens Region*, [Ortiz-León, G. N.; Loinard, L.; Mioduszewski, A. J.; Dzib, S. A.; Rodríguez, L. F.; Pech, G.; Rivera, J. L.; Torres, R. M.; Boden, A. F.; Hartmann, L.; Evans, N. J.; Briceño, C.; Tobin, J.; **Kounkel, M.**; González-Lópezlira, R. A.], 2015, ApJ, 805, 90 (link)
- *The Gould's Belt Very Large Array Survey. IV. The Taurus-Auriga Complex*, [Dzib, S. A.; Loinard, L.; Rodríguez, L. F.; Mioduszewski, A. J.; Ortiz-León, G. N.; **Kounkel, M.**; Pech, G.; Rivera, J. L.; Torres, R. M.; Boden, A. F.; Hartmann, L.; Evans, N. J.; Briceño, C.; Tobin, J.], 2015, ApJ, 801, 91 (link)
- *HOPS 136: An Edge-on Orion Protostar near the End of Envelope Infall*, [Fischer, W. J.; Megeath, S. T.; Tobin, J. J.; Hartmann, L.; Stutz, A. M.; **Kounkel, M.**; Poteet, C. A.; Ali, B.; Osorio, M.; Manoj, P.; Remming, I.; Stanke, T.; Watson, D. M.], 2014, ApJ, 781, 123 (link)
- *Multiwavelength Observations of V2775 Ori, an Outbursting Protostar in L 1641: Exploring the Edge of the FU Orionis Regime*, [Fischer, W. J.; Megeath, S. T.; Tobin, J. J.; Stutz, A. M.; Ali, B.; Remming, I.; **Kounkel, M.**; Stanke, T.; Osorio, M.; Henning, T.; Manoj, P.; Wilson, T. L.], 2012, ApJ, 756, 99 (link)

Presentations

Interstellar Filaments, Japan <i>Contributed Talk</i>	2018/11
University of Arizona <i>Talk</i>	2018/10
Cool Stars 20, Boston <i>Contributed Talk</i>	2018/08
Olympian Symposium, Greece <i>Poster</i>	2018/04
Carnegie, Washington DC <i>Talk</i>	2018/01
AAS, Washington DC <i>Dissertation Talk</i>	2018/01
Herzberg, Victoria <i>Talk</i>	2017/11
<i>Gaia</i> Workshop, Heidelberg, <i>Contributed Talk</i>	2016/11
Orion (un)plugged, <i>Invited Talk</i>	2016/10
Institute for Astronomy, Hilo, <i>Invited Talk</i>	2016/05
Institut de Planétologie et d'Astrophysique de Grenoble, <i>Invited Talk</i>	2016/03
Frontiers in Star Formation, Ann Arbor, MI, <i>Contributed Talk</i> . . .	2015/06